

ARDEC

# *A*RMAMENT INTEGRATED DATA ENVIRONMENT



ARMAMENTS RESEARCH, DEVELOPMENT and ENGINEERING CENTER



# The Enterprise Management Knowledge and Process Management Office

## **The Armament Advanced Collaborative Environment (ACE)**

## **Introductory Windchill Training Part 2**

**July 2004**

**Instructors: Armament ACE Team, ARDEC**



# A-ACE Advanced



- ◆ Section 4: Working with Documents
- ◆ Section 5: Working with Data



# Section 4: Working with Documents

## ◆ Objectives

- Setting up your local worklocation directory
- Creating a new Document
- Modifying with basic check in / check out
- Personal Cabinet
- My Worklist

## ◆ Goals

- After this section you should be able to create and modify any document in the Armament ACE system.



# Setting up your worklocation directory

- ◆ Your worklocation directory is a directory in your desktop PC.
- ◆ Create a new directory called: "ACE\_worklocation"
- ◆ Place within it a blank file (of any type)
- ◆ Go into Windchill as follows.....



# Creating a worklocation

Click on  
“Modify  
Search  
Preferences  
”

Windchill - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address <https://pace.pica.army.mil/Windchill/wtcore/jsp/wtportal/index.jsp>

Links AIM AKO LOS BLOS PACE mySAP ProjectLink FCS ACE User Accounts DAU qed359

**Armament ACE**

Home Options Site Map

**Business Administration**

Windchill Explorer

Policy Administrator

User and Group Administrator

Process Administrator

Attribute Administrator

Type Manager

[Modify Search Preferences](#)

Select a Windchill object type to refresh the criteria fields.

Search On:

Enter criteria, then click **Search**.

Number:	<input type="text"/>
Name:	<input type="text"/>
State:	<input type="text"/>
Team:	<input type="text"/>
Cabinet:	<input type="text"/>
Created By:	<input type="text"/> <input data-bbox="1116 1082 1226 1115" type="button" value="Browse..."/>
Updated By:	<input type="text"/> <input data-bbox="1116 1129 1226 1162" type="button" value="Browse..."/>
Last Updated:	<input type="text"/> (MM/DD/YYYY)



# Creating a worklocation - continued

Click the  
"Content"  
tab

Sort Preferences - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address <https://pace.pica.army.mil/Windchill/servlet/WindchillAuthGW/wt.enterprise.URLProcessor/URLTemplateAction?quer> Go

### Edit User Preferences

Content Search Visualization

#### Sort Preferences

Choose the sorting preferences for your search results. Each object type can have a different sort preference. Click **Apply** to save your preference selection before choosing a new object from the **When Searching On** list.

When Searching On: All

Sort By: Number

Then by: Version

Then by: None

☒ Ascending ☐ Descending

☐ Ascending ☒ Descending

☒ Ascending ☐ Descending

Use System Default

OK Apply Cancel

**Related Preferences:**

- [Search Mode](#)
- [Concept Expansion Level](#)
- [Library Preferences](#)
- [Sort Preferences](#)
- [Thumbnail Display in Search Results](#) (from Visualization preferences)
- [Search Results Paging](#)

Done



# Creating a worklocation - continued

Select the  
“Workspace” link

**Edit User Preferences**

Content Search Visualization

**Workspace**  
Choose a default directory for uploading and downloading primary files.

**Download Operation Type**  
Choose to have primary file opened or saved to disk.

**Content Download Upon Document Checkout**  
Choose whether primary file is opened in application or saved to local directory.

**File Not Found Behavior**  
Choose behavior if local file is not found.

**Unchanged File Behavior**  
Choose behavior if local file has not changed.

**Changed File Behavior**  
Choose behavior if local file has changed.

Close



# Creating a worklocation - continue

Enter your  
PC's  
worklocation  
directory  
(click  
"Browse")

**Edit User Preferences**

Content Search Visualization

**Workspace**

Choose a workspace directory on your computer to be a default location for uploading and downloading the primary content file of a document. Set your workspace by browsing to and selecting a file in the directory you want to use as your workspace. The directory must already exist on your computer and contain at least one file. If you do not choose a workspace, or if you log in from a different computer where your workspace does not exist, a default will be determined by your operating system.

Current Workspace: C:\ACE workspace\New Text Document.txt

New Workspace:  Browse...

Use System Default

OK Apply Cancel

**Related Preferences:**

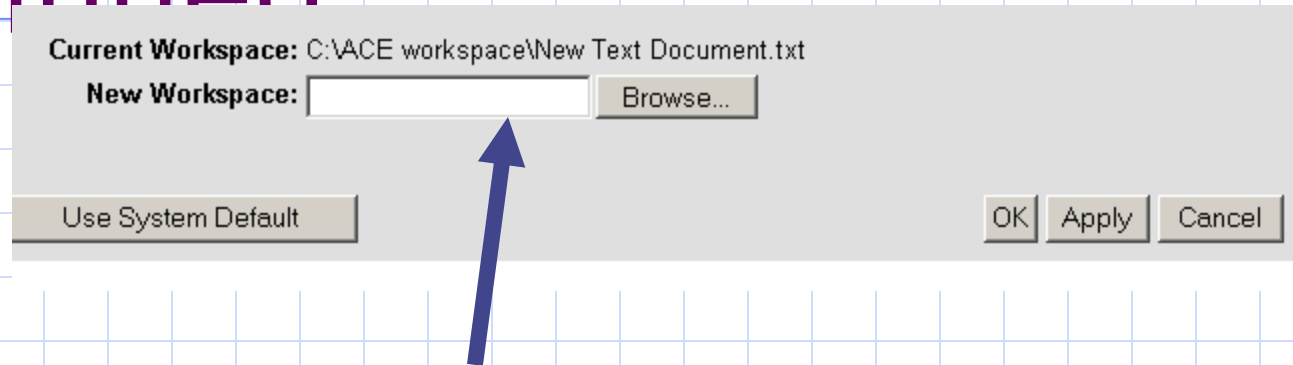
- Workspace
- [Download Operation Type](#)
- [Content Download Upon Document Checkout](#)
- [File Not Found Behavior](#)
- [Unchanged File Behavior](#)
- [Changed File Behavior](#)

Done

Notice  
both  
directory  
and a  
'dummy'  
file must  
exist



# Creating a worklocation - continued



- ◆ The worklocation directory you just specified, is the location where files will be uploaded from and downloaded to on your PC.
- ◆ Use this worklocation to check-out and edit files outside of Windchill.
- ◆ Remember: when creating a new worklocation, the directory must already exist on your PC, and contain at least one file.



# Creating a new Document

- ◆ A document in Windchill is made up of two parts:
  - Part 1: The Metadata part – which is an “object” that contains information about the data file that is to be uploaded
  - Part 2: The Actual file itself that you are uploading.



# Creating and Uploading a New Document

Create Document button

Windchill - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Mail News RSS Feeds

Address <https://pace.pica.army.mil/Windchill/wtcore/jsp/wt/portal/index.jsp> Go Links >>

Armament ACE

Home Options Site Map

Product Design

Windchill Explorer

Product Information Explorer

Create Change Request

Change Manager

[Modify Search Preferences](#)

Select a Windchill object type to refresh the criteria fields.

Search On: All

Enter criteria, then click Search.

Number:

Name:

State:

Team:

Cabinet:

Created By:  Browse...

Updated By:  Browse...

Last Updated:  (MM/DD/YYYY)

Search

Home Options Site Map

© Copyright 2001 Parametric Technology Corporation



# Creating a new Document, cont.

**Create Document - Microsoft Internet Explorer**

File Edit View Favorites Tools Help

Address <https://pace.pica.army.mil/Windchill/servlet/WindchillAuthGW/wt.enterprise.URLProcessor/URLTemplateAction?C>

Links >> SnagIt

**Create Document**

**General** Attachments Referenced Documents Structure

**Primary Content:**

- ☒ File C:\Documents and Settings\angeloc\ Browse...
- ☐ URL
- ☐ No primary content

**\*Number:** Any alphanumeric here

**\*Name:** Briefing for Managers

**Title:** Briefing for Managers

**Type:** Document

**\*Department:** Engineering

**Description:** PPT file containing Windchill training

**\*Location:** /eProduct Team/Windchill/Training Browse...

**\*Life Cycle:** ACE Default

**Team:** eProduct Team (/eProduct Team)

☐ Submit for Life Cycle Promotion

OK Cancel Help

Applet started. Internet

**1. Browse to the file on your PC**

**2. Enter number, name and title**

**3. Enter document description**

**5. Hit OK button to upload the document to Windchill**

**4. Enter Cabinet and Folder Location in Windchill**



# Creating a new Document, cont.

Microsoft Internet Explorer - Create Document

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites

Address <https://pace.pica.army.mil/Windchill/servlet/Windchill>

Links SnagIt

**Create Document**

[Home](#)  
[Personal Cabinet](#)  
[Checked Out Folder](#)  
[Search](#)  
[Worklist](#)  
[Create Document](#)  
[Visualization Clipboard](#)  
[Preferences](#)  
[Help](#)

**General** [Attachments](#) [Referenced Documents](#) [Structure](#)

**Primary Content:**  
☒ File    
☐ URL   
☐ No primary content

**\*Number:**

**\*Name:**

**Title:**

**Type:**

**\*Department:**

**Description:**

**\*Location:**

**\*Life Cycle:**

**Team:**

General | [Attachments](#) | [Referenced Documents](#) | [Structure](#)

☐ Submit for Life Cycle Promotion

Applet started. Internet

Additional files may be “Attached” or “Referenced”, however these additional files will become part of the document being created, and will not not be searchable per se



# Modifying a Document

Search Results - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Links

Address <https://pace.pica.army.mil/Windchill/servlet/WindchillAuthGW/wt.enterprise.URLProcessor/URLTemplateAction?pick=22&number=&name=&docTy> Go

Links SnagIt

## Search Results

Search Results for Document

Your search "Document, Format = Microsoft Word" found 4 objects. [Modify Criteria](#)

Number	Name	Version	Updated		
1	<a href="#">EIA859 001</a>	EIA 859 integrated A	<a href="#">EIA859 001 (EIA 859 integrated) 79</a>	Under Review	2003-10-23 16:12:28 EDT
<a href="#">All Versions</a> <a href="#">Check Out</a> <a href="#">Get Content</a> <a href="#">Save As</a> <a href="#">Submit</a>					
2	<a href="#">LMCHENWKTEST1</a>	lmchenwktest1 A	<a href="#">LMCHENWKTEST1 (lmchenwktest1) 67</a>	Under Review	2003-10-09 14:26:40 EDT
<a href="#">All Versions</a> <a href="#">Check Out</a> <a href="#">Get Content</a> <a href="#">Save As</a> <a href="#">Submit</a>					
3	<a href="#">NEWLIFECYCLETEST001</a>	newlifecycletest001 A	<a href="#">NEWLIFECYCLETEST001 (newlifecycletest001) 68</a>	Released	2003-10-10 09:48:35

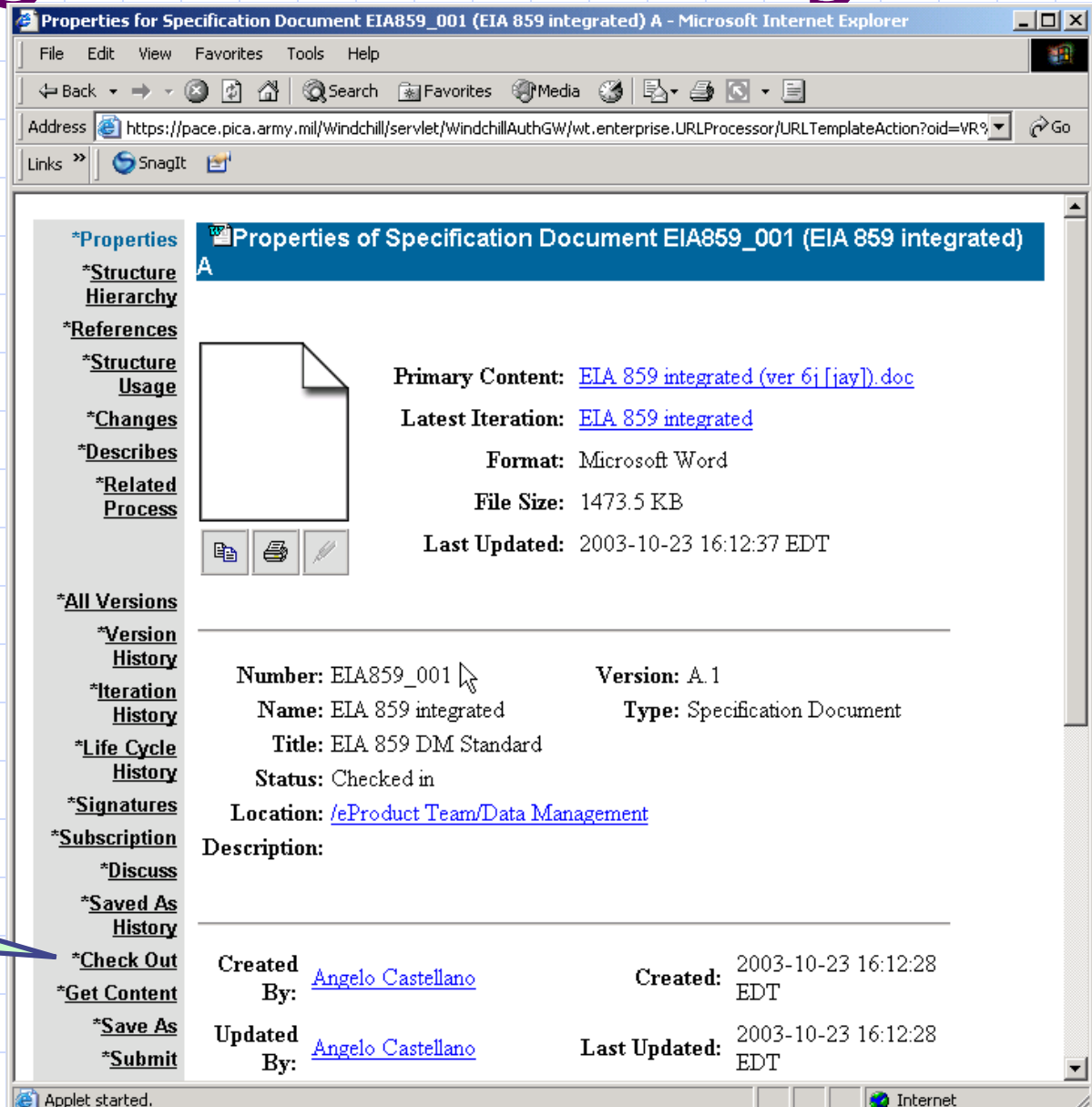
Applet started. Internet

Double-click on a file to view its Properties page





**Check Out  
button (on  
Properties  
page)**





# Checking In after modifying

Properties for Document WC TNG001 (WC Tng for Managers) A - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste

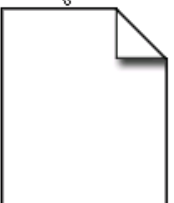
Address [ndchill/servlet/WindchillAuthGW/wt.enterprise.URLProcessor/URLTemplateAction?oid=VR%3Awt.doc.WTDocument%3A42127&action=ObjProps&u8=1](#) Go

Links [Armament ACE](#) [LOS-BLOS Home Page](#) [NQUE MRAAS Home Page](#)

**Properties of Document WC TNG001 (WC Tng for Managers) A**

**\*Properties**  
**\*Structure Hierarchy**  
**\*References**  
**\*Structure Usage**  
**\*Changes**  
**\*Describes**  
**\*Related Process**

**\*All Versions**  
**\*Version History**  
**\*Iteration History**  
**\*Life Cycle History**  
**\*Signatures**  
**\*Subscription**  
**\*Discuss**  
**\*Saved As History**  
**\*Check In**  
**\*Update**  
**\*Get Content**  
**\*Save As**  
**\*Submit**  
**\*Undo Checkout**  
**\*Rename**



**Primary Content:** [WC Tng for Managers.ppt](#)  
**Latest Iteration:** [WC Tng for Managers](#)  
**Format:** Microsoft PowerPoint  
**File Size:** 6829.5 KB  
**Last Updated:** 2003-11-25 11:29:51 EST

**Number:** WC TNG001  
**Name:** WC Tng for Managers  
**Title:** WC Tng for Managers  
**Status:** [Angelo Castellano](#)  
**Location:** [/eProduct Team/Windchill/Training](#)

**Version:** A.3  
**Type:** Document

**Description:**

**Created By:** [Angelo Castellano](#)  
**Updated By:** [Angelo Castellano](#)

**Created:** 2003-11-05 12:47:50 EST  
**Last Updated:** 2003-11-25 11:29:52 EST

Applet started. Internet

Check In  
button



# Check In, continued

1. Box (grey area) appears at bottom of Properties window

**Location:** <rangelio.j.castellano/Checked Out>

**Description:**

**Primary Content:**

- ☒ File  - ☐ URL
- ☐ No primary content

**Comments:**

☐ Submit for Life Cycle Promotion

Applet started. Internet

2. Enter any comments

3. Hit OK button to send file into Windchill (i.e. to check in)



# Updating a Document without Checking it In

1. Open the Windchill Explorer window

Windchill Explorer

File Edit Object Life Cycle Tools Help

Cabinets and Folders

Contents of 'eProduct Team/Windchill/Training'

Name	Number	Version	State	Type	Last Up
WC Tng for Managers	WC TNG001	A	In Work	Document	11/25/03

3. Double-click on the file name

2. Notice the red check mark, next to your checked out file name

Java Applet Window



# Updating without check in, continued

**Update Document** <Document WC TNG001 (WC Tng for Managers) A>

Primary File: C:\Documents and Settings\angeloc\pacework\WC Tng for Managers.ppt [Browse...] [Remove Primary]

\*Name: WC Tng for Managers Type: Document

Title: WC Tng for Managers \*Department: Training

\*Number: WC TNG001

Description:

\*Location: /angelo.j.castellano/Checked Out

\*Life Cycle: No Routing State: In Work

Team: eProduct Team

Attachments

Referenced Documents

Structure

Name	Modified	To-Do
------	----------	-------

Add File

Add URL

Remove

Replace

Get

Properties

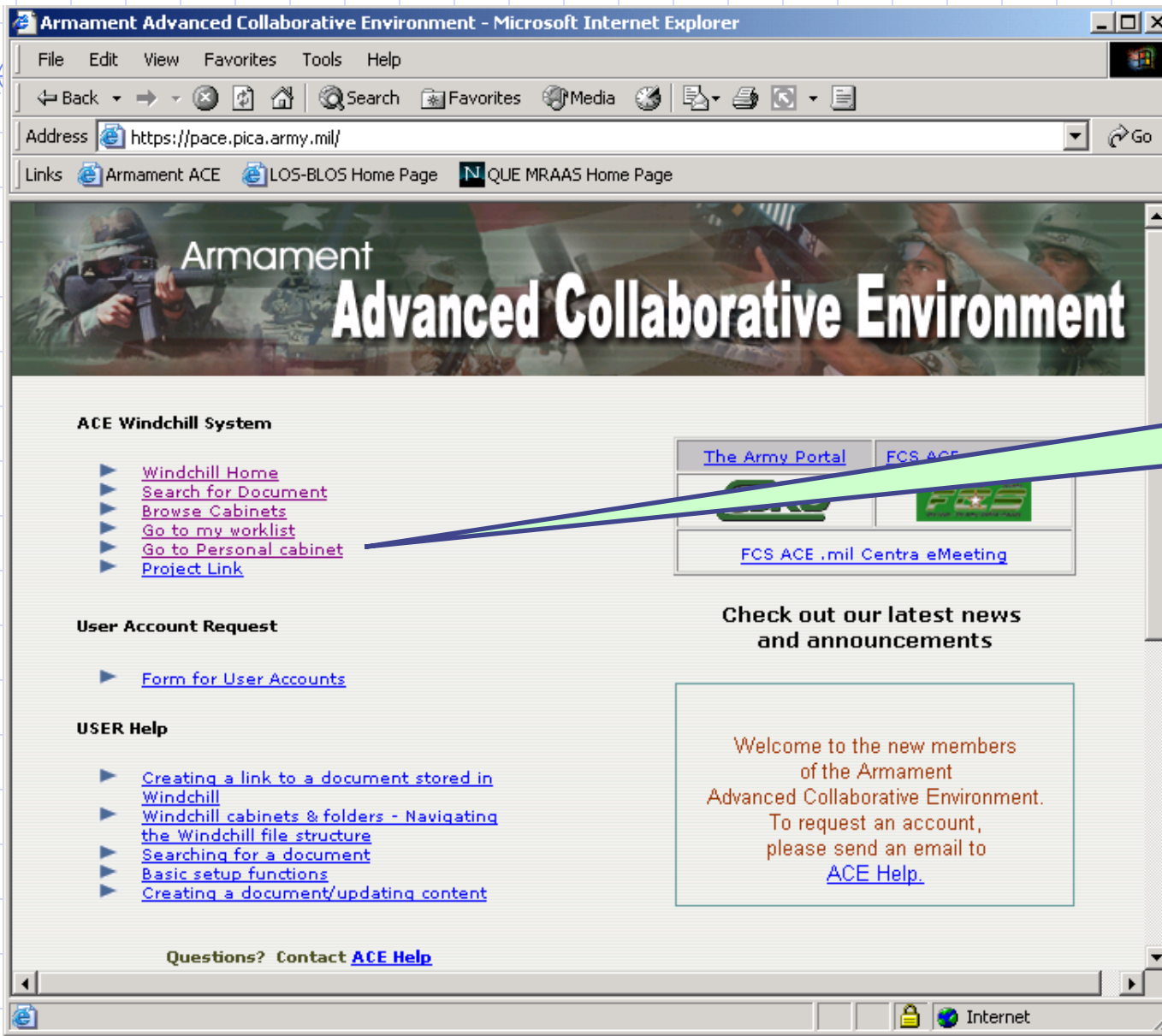
OK Save Cancel Help

Java Applet Window

**Hit OK to  
update the file  
into Windchill,  
without  
checking it in**



# Viewing your Personal Cabinet



Go to  
Personal  
Cabinet



# Viewing your Personal Cabinet, cont'd

Notice the  
Checked Out  
Folder  
(click to see  
all files you  
checked out)

Contents of /angelo.j.castellano - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print View Source

Address <https://pace.pica.army.mil/Windchill/servlet/WindchillAuthGW/wt.enterprise.URLProcessor/URLTemplateAction?Class=wt> Go

Links [Armament ACE](#) [LOS-BLOS Home Page](#) [QUE MRAAS Home Page](#)

**\*Home** You Are Here: [/](#) > [angelo.j.castellano](#)

**\*Personal Cabinet**

**\*Checked Out Folder**

**\*Search**

**\*Worklist**

**\*Create Document**

**\*Visualization Clipboard**

**\*Preferences**

**? Help**

**Contents of /angelo.j.castellano**

Location: /angelo.j.castellano  
Domain: /User  
Created: 2003-08-12 14:51:12 EDT [View parent folder](#)

Name	Number	Version	State	Type	Last Updated	Team
<a href="#">Checked Out</a>				Folder	2003-08-12 14:51:12 EDT	

Applet started.

Internet



# Section 5: Working with Data

## ◆ Objectives

- Understand Document Management Concepts
  - ◆ Worklists
  - ◆ Lifecycles
  - ◆ Workflows
- Understand Document Structure

## ◆ Goals

- After this section you should be able to understand how the Armament ACE environment handles lifecycles, workflows, worklist taskings, and document structure.

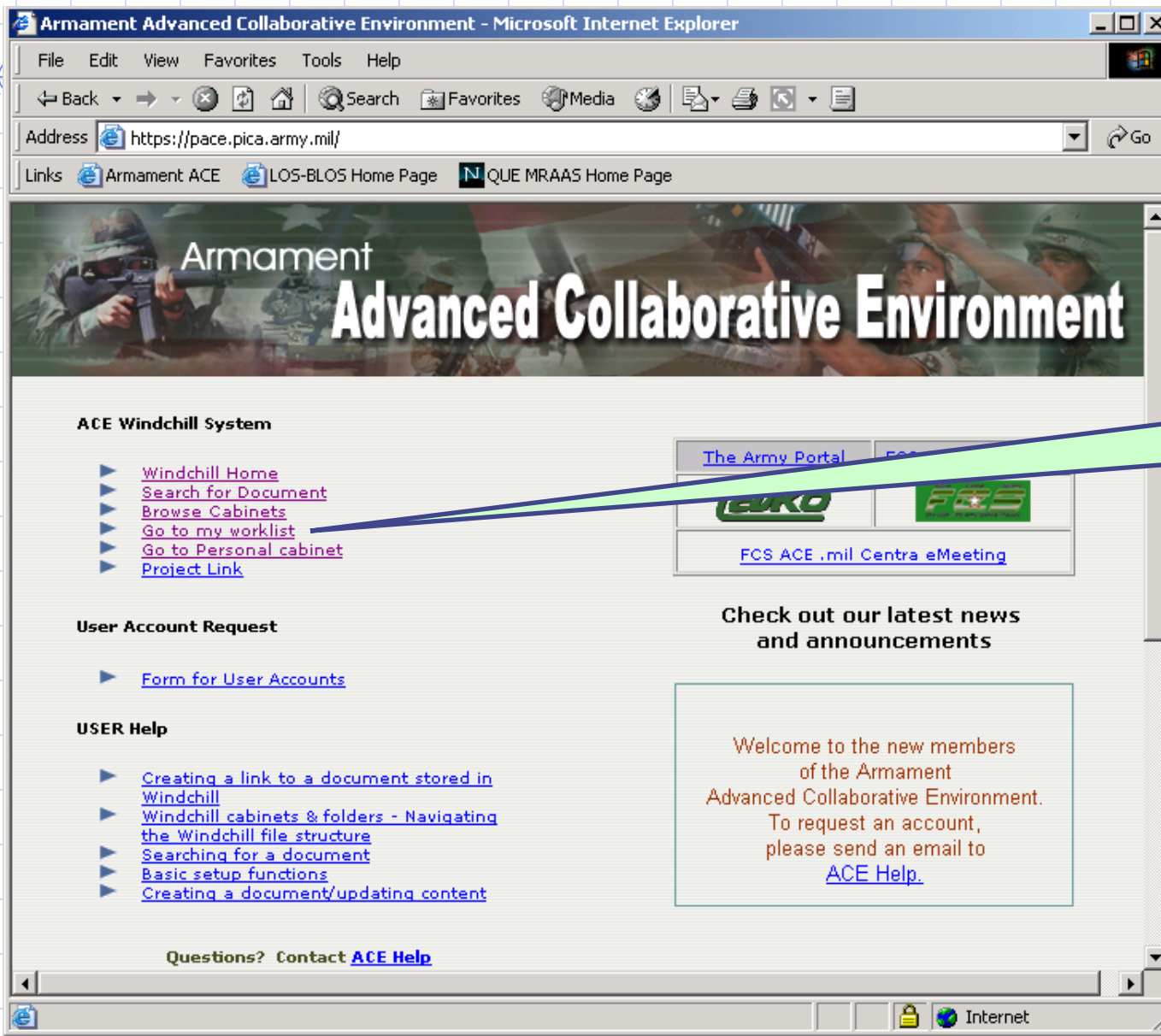


# Document Management Concepts

- ◆ Purpose of a Document Management system:
  - Collaboration environment
  - Store information
  - Manage information
  - Automated workflow to route Information
  - Control access to information
- ◆ In the Armament ACE you create a document and assign it to a Life Cycle. The Life Cycle might also define a Workflow the document could follow.
- ◆ As a document moves through a Workflow, users are typically given document review tasks, visible in the Worklist. Users are notified of assigned tasks via email.



# Viewing your Worklist



Go to my  
worklist



# Viewing Your Worklist, cont'd

Your Worklist stores work items that have been assigned to you.

Worklist < Angelo Castellano > - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites Media

Address <https://pace.pica.army.mil/Windchill/servlet/WindchillAuthGW/wt.enter...>

Angelo Castellano 2003-10-31 11:23:50 EST

Layouts: System Default Rebuild Worklist

Reassign Accept

	Task	Subject	State	Status	Priority	Deadline	Team
<input type="checkbox"/>	<a href="#">Observe</a>	<a href="#">Document LMCHENWkTEST1 (lmchenwktest1) A</a>	Under Review	Potential	Highest		<a href="#">Team LMCHENWkTEST1 (lmchenwktest1) 67 (/eProduct Team)</a>
<input type="checkbox"/>	<a href="#">Review</a>	<a href="#">Specification Document EIA859_001 (EIA 859 integrated) A</a>	Under Review	Potential	Highest	2003/11/12	<a href="#">Team EIA859_001 (EIA 859 integrated) 79 (/eProduct Team)</a>
<input type="checkbox"/>	<a href="#">Observe</a>	<a href="#">Specification Document EIA859_001 (EIA 859 integrated) A</a>	Under Review	Potential	Highest		<a href="#">Team EIA859_001 (EIA 859 integrated) 79 (/eProduct Team)</a>

Applet started.



# Examples of some work tasks

**Instructions:** Review and modify the document as necessary.

**Process:** [Collaborate\\_SCROLLING TEXT\\_0001 \(ACE Website Scrolling Text Content Update\) A](#)

**Process Initiator:** [Angelo Castellano](#)

**Due Date:** 1/28/2004

**Role:** Reviewer

**Assignee:** [Angelo Castellano](#)



 [Document\\_SCROLLING TEXT\\_0001 \(ACE Website Scrolling Text Content Update\) A](#)

☒ Object is ready for promotion

Comments:

☒ Approve



☐ Do not approve

Name	Modified	To-Do
 cantfindme.log	1/13/04 3:00 PM	
 dotNetFx.log	1/13/04 2:58 PM	

- ☒ Approved as is
- ☐ Approved with changes
- ☐ Reject
- ☐ Defer

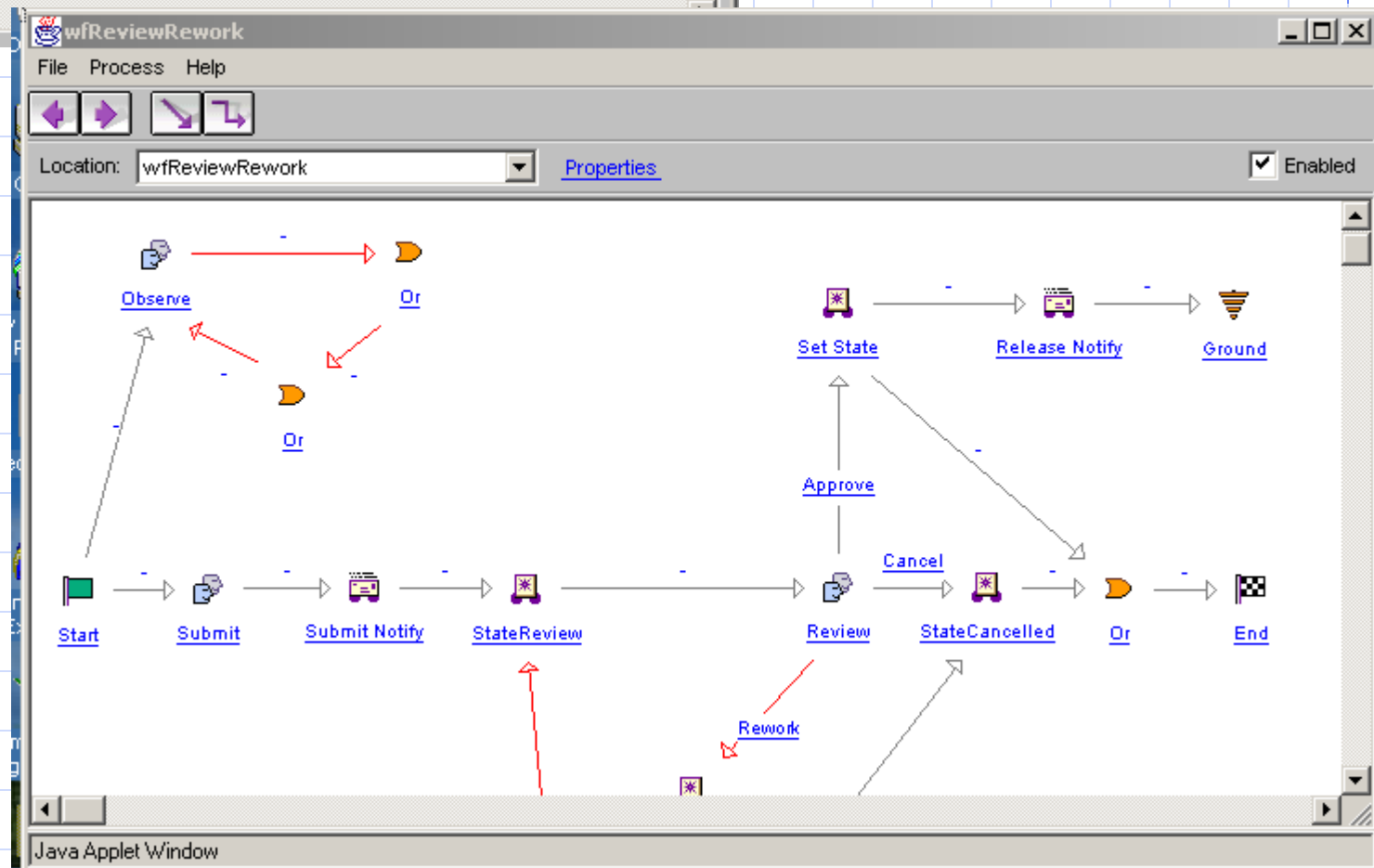
Task Complete

Completed	Reviews	Role	Approve	Comments
	Angelo Castellano	Reviewer	Pending	
	Neill Reidy	Reviewer	Pending	
	dick.chen	Reviewer	Pending	
2004-01-14 13:40:10 EST	Leeming Chen	Reviewer	Yes	it's good to see other's comments

File Name	Format	File Size	Last Updated	Updated By
 <a href="#">cantfindme.log</a>	Text File	2.56 KB	2004-01-13 15:00:36 EST	<a href="#">Angelo Castellano</a>
 <a href="#">dotNetFx.log</a>	Text File	2.56 KB	2004-01-13 14:58:39 EST	<a href="#">Angelo Castellano</a>



# Introduction to Lifecycles and Workflow





# Life Cycles Overview

- ◆ A life cycle represents the states a documents may move through as it matures.
- ◆ A life cycle is valuable because it provides a high-level view of a document's state of maturity.
  - Examples of lifecycle states: “in work”, “under review”, “released”, “baselined”, etc.
- ◆ One could establish criteria for advancing a document from one state to another, and change states either manually or via a workflow.
- ◆ Life Cycles could also be used also to control access to documents. Example is Contractor “A” is allowed to see only documents that have a “released” lifecycle.



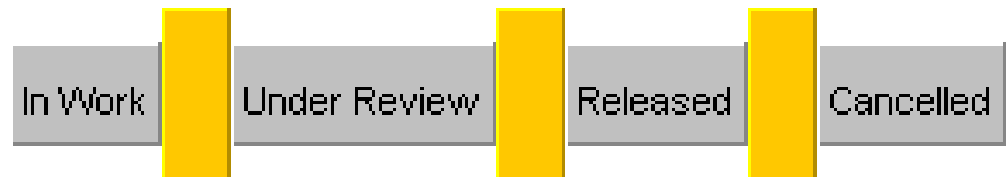
# Life Cycles, cont'd

- ◆ There are two Life Cycles to choose from:
  - General Documents Life Cycle – these documents have no workflow associated with them and they do not need approvals from anyone. (example: minutes, presentations, etc.)
  - Formal Documents Life Cycle – these documents have workflow and usually pass through different levels of approvals, depending on the type of document. (example: documents under configuration control)



# Example Lifecycles

## Collaborate lifecycle



Lifecycles can be simple or complex.

## WSAR lifecycle



## Change Issue lifecycle
























# Workflow capabilities – tools for creating

WC

## Descriptions of Menu Options on the Workflow Process Editor

Button	Description
	Allows you to select activities and links in the process definition. You can use the selection tool to click hyperlinks, allowing you to edit properties or navigate to subprocesses.
	Allows you to link activities together within a process definition to define the flow of control. Each link you create contains a hyperlink that has, as its name, the event that will cause the link to be followed. Clicking on the hyperlink allows you to map the events in the predecessor activity, causing actions to be performed in the successor activity. For more information about the linking tool, see <a href="#">Workflow Process Links</a> .
	An <a href="#">Assigned Activity</a> is an activity that is assigned to a user or group of users to perform.
	An <a href="#">Ad Hoc Activity</a> allows you to define a group of activities at runtime.
	A <a href="#">Block</a> is a subprocess that is not predefined and cannot be run on its own.
	A <a href="#">Proxy Process</a> is a subprocess embedded within the parent (main) process. Processes can be nested to reduce complexity and provide reuse.
	The <a href="#">And connector</a> will not fire until all predecessor links have fired.
	The <a href="#">Or connector</a> will fire if any one of the predecessor links has fired.
	The <a href="#">Conditional router</a> allows you to branch the process based on a conditional expression.
	The <a href="#">Threshold connector</a> will fire if a user-defined number of predecessor links fire.
	The End stops the process. All activities should eventually be connected to an End.
	The Ground stops a parallel branch of activities in a workflow, but it does not stop the process.
	The <a href="#">Notification robot</a> notifies the specified user with an email message you create.
	The <a href="#">Method robot</a> offers several predefined actions for use within a process definition.
	The <a href="#">Timer robot</a> delays the start of an activity for a specified amount of time, based on the time the parent process is begun.
	The <a href="#">Application robot</a> executes a system command on the server.
	The <a href="#">Expression robot</a> executes a Java expression in the workflow.
	The <a href="#">Synchronization robot</a> synchronizes the start of an activity or process with non-time-related events.
	The <a href="#">URL robot</a> executes a URL to access an HTML page.



# Example Workflow

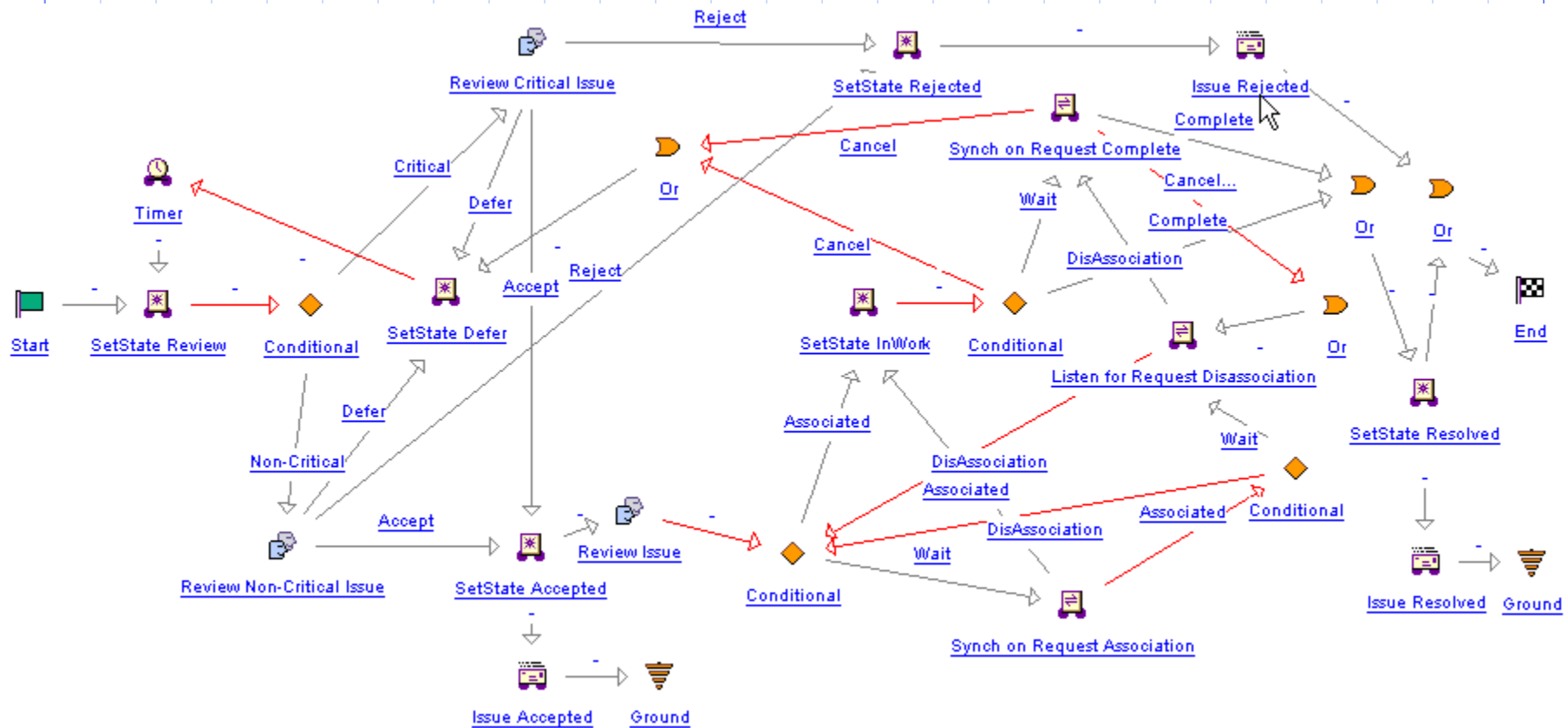


- ◆ A workflow follows a series of steps, each step providing a mixture of functionality.
- ◆ The above example is a workflow for submitting Weekly Significant Activity Reports.
- ◆ It includes actions such as lifecycle state changes, team reviews, manager approvals, and email notifications.



# Example workflow, cont'd

## A complex workflow:



P.S.: There is a workflow tutorial from PTC in Windchill



# Teams

- ◆ “Teams” are used in workflows to assign work.
- ◆ Each team has personnel chosen to specific roles, such as “IPT Lead”, “Reviewer”, “Approver”, or “Observer”.

Teams		
Team	Enabled	
AMT Team (/AMT)	<input checked="" type="checkbox"/>	Create
Change Control Board (/System)	<input type="checkbox"/>	Update
Change Team (/System)	<input type="checkbox"/>	View
Default (/System)	<input type="checkbox"/>	Delete
Demo Project Team (/Demo Project)	<input checked="" type="checkbox"/>	Rename...
EM Gun (/EM Gun)	<input checked="" type="checkbox"/>	Save As...
Green Ammo 5.56mm Team (/Green Ammo)	<input checked="" type="checkbox"/>	Help
Matrex Team (/Matrex)	<input checked="" type="checkbox"/>	
eProduct Team (/eProduct Team)	<input checked="" type="checkbox"/>	

**Update Team**

\*Team:   ☒ Enabled

\*Location:

Description:

Available Roles:

- Approver
- Assignee
- Auditor
- Author
- Change Admin I
- Change Admin II
- Change Admin III
- Change Implementation Board
- Change Manager
- Change Owner

Selected Roles:

- Observer
- Promoter
- Recipient
- Reviewer**
- Submitter

Participants

Java Applet Window



# Example: ASIC Systems Engineering Team

[\\*Home](#)  
[\\*Personal Cabinet](#)  
[\\*Checked Out Folder](#)  
[\\*Search](#)  
[\\*Worklist](#)  
[\\*Create Document](#)  
[\\*Visualization Clipboard](#)  
[\\*Preferences](#)

## Properties of Team ASIC Systems Engineering Team (/ASIC Systems Engineering)

**Name:** ASIC Systems Engineering Team

**Enabled:** true

**Location:** [/ASIC Systems Engineering](#)

**Description:**

**Role Participants:**

Project Administrator: [Andrea Pastuck](#)

Project Engineer: [Andrea Pastuck](#), [Vance Alan Chase](#), [Robert Anthony Trifiletti JR](#), [Thomas Patrick Alameda](#), [John Gary Koster](#), [Allan Eric Lagasca](#), [David Edmiston](#)

Recipient: Creator

Program Director: [Jeffrey Charles Dyer](#)

Reviewer: ASIC Systems Engineering Leads

Observer: Creator

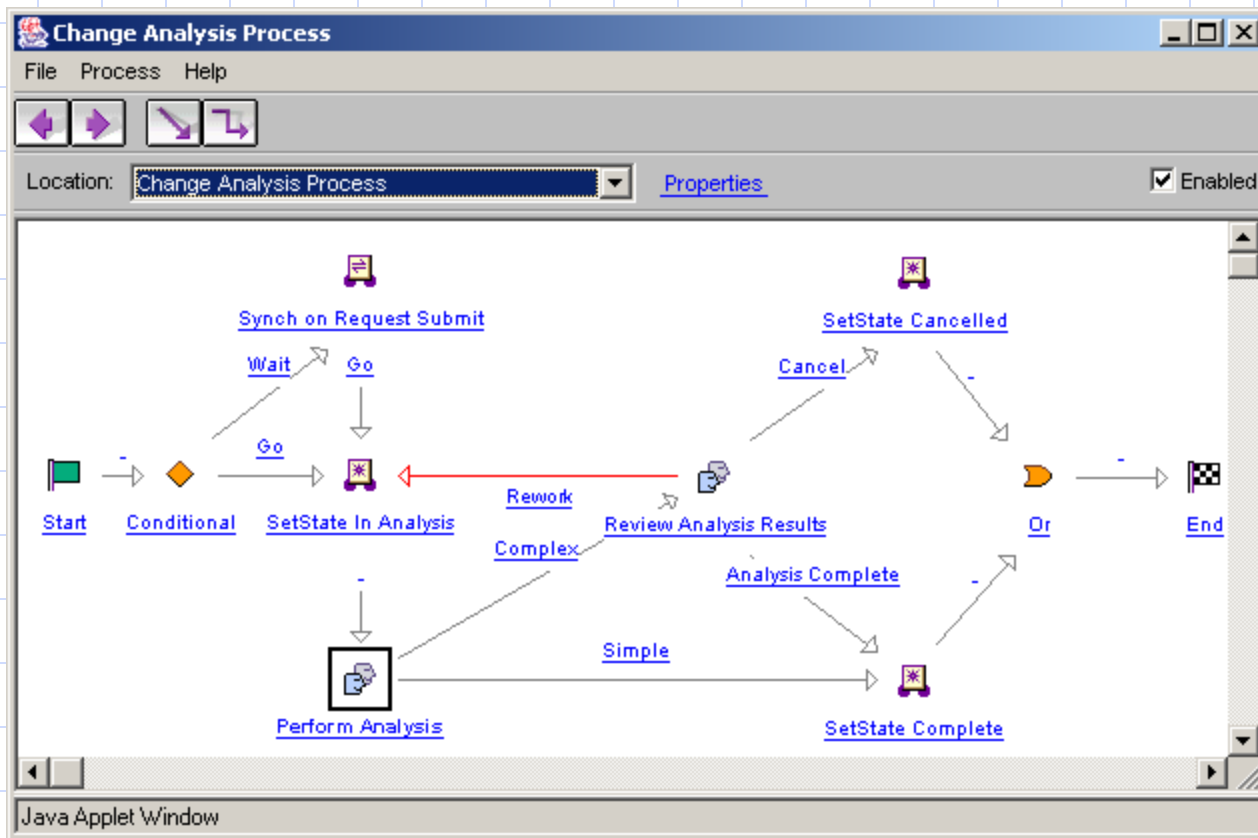
Project Manager: [Randy Shorr](#)

Submitter: Creator

Promoter: ASIC Systems Engineering Leads

Team Leader: [Allan Eric Lagasca](#), [David Edmiston](#)





Example  
Workflow  
Roles:

The “Change  
Analysis  
Process”

**Perform Analysis Properties**

General Activity **Participants** Deadline Variables Routing Transitions Errors

Assignee	Type	Required
Design Engineer	Role	<input checked="" type="checkbox"/> Any

At runtime, resolve roles from team  or team variable

Java Applet Window



# Other services

## ◆ Help

- Email help: [ace-help@pica.army.mil](mailto:ace-help@pica.army.mil)
- Telephone support: (973) 724-6702, DSN 880-6702
- Online manuals (provided by the vendor, PTC)
- Online tip sheets
- Online video clips
- Online news

## ◆ User-account management

- Accountable
- Secure
- Notifiable

## ◆ Customer champions

- Would have additional privileges on the system
- Would have a voice in Armament-ACE administration
- Would assist in directly supporting the customer

## ◆ Webex

- Online eMeetings



# Online Library

- [\\*Home](#)
- [\\*Personal Cabinet](#)
- [\\*Checked Out Folder](#)
- [\\*Search](#)
- [\\*Worklist](#)
- [\\*Create Document](#)
- [\\* Visualization Clipboard](#)
- [\\*Preferences](#)

## Library

[Windchill Use](#) [Windchill Administration](#) [Windchill Customization](#) [Engineering Factor! Use](#) [Engineering Factor! Administration](#)



### Windchill Use

What's New in Windchill Release 6.2	<a href="#">PDF</a>	
Windchill User's Guide	<a href="#">PDF</a>	<a href="#">HTML</a>
Windchill Workflow Tutorial	<a href="#">PDF</a>	
Windchill Glossary	<a href="#">PDF</a>	<a href="#">HTML</a>



### Windchill Administration

Windchill Installation and Configuration Guide	<a href="#">PDF</a>	
Info*Engine Installation and Configuration Guide	<a href="#">PDF</a>	
Windchill Upgrade and Migration Guide	<a href="#">PDF</a>	<a href="#">HTML</a>
Windchill Schema Changes		<a href="#">HTML</a>
Windchill Supported API Changes		<a href="#">HTML</a>



# User account management

